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SEQUENCE LISTING

<110> ASTRAZENCA AB  
 DYAX CORP.

<120> ANTIBODIES

<130> N.9071A GCW/PT

<150> US 60/525,174

<151> 2003-11-28

<160> 527

<170> PatentIn version 3.2

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Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys Leu Glu Glu Gln Ala  
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Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln Ala Arg Leu Lys Ser  
 35 40 45

Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu  
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Ser Asp Asn His

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Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val  
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Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu  
1 5 10 15

&lt;210&gt; 9

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 9

Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp  
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&lt;210&gt; 10

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 10

Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val  
1 5 10 15

&lt;210&gt; 11

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 11

Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
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&lt;210&gt; 12

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 12

Leu Val Glu Asp Met Gln Arg Gln  
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&lt;210&gt; 13

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

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Trp Ala Gly Leu Val Glu Lys Val  
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Arg Thr Arg Asp Arg Leu Asp Glu  
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Ala Phe Gln Ala Arg Leu Lys Ser  
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Val Lys Glu Gln Val Ala Glu Val  
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Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp  
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Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val  
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Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val Lys  
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Gly

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Ser Leu Asp Leu Asp Tyr  
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Met Tyr Met Met Asp  
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Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val Lys  
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Gly

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Ser Val Leu Leu Asp Tyr  
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Tyr Tyr Ala Met Gln  
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Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val Lys  
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Gly

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Met Asp Val

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Arg Ala Ser Gln Arg Ile Arg Lys Asn Leu His  
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Asp Ala Ser Ser Asn Glu Arg  
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<400> 32

Gln Gln Ser Phe Ser Ser Pro Trp Thr  
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<210> 33  
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Arg Thr Ser Gln Asp Ile Arg Asn His Leu Gly  
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<210> 34  
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Glu Ala Ser Ile Leu Gln Ser  
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<210> 35  
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<400> 35

Leu Gln Tyr Asp Ser Phe Pro Tyr Thr  
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<210> 36  
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<400> 36

Arg Ala Ser Gln Ser Ile Gly Ser Arg Tyr Leu Ala  
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<400> 37

Asp Ala Ser Lys Arg Ala Thr  
1 5

<210> 38  
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<212> PRT  
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<400> 38

Gln Gln Gly Tyr Asn Trp Pro Pro Trp Thr  
1 5 10

<210> 39  
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<213> Homo sapiens

<400> 39

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr  
20 25 30

Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ser Leu Asp Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr  
100 105 110

Val Ser Ser  
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<400> 40

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
20 25 30  
Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
50 55 60  
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80  
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95  
Ala Arg Ser Val Leu Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr  
100 105 110  
Val Ser Ser  
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<210> 41  
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<400> 41

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr  
20 25 30  
Ala Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ser Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val  
50 55 60  
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80  
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Arg Gly Arg Gly Asn Tyr Asp Phe Trp Ser Ala Gly Tyr Tyr Tyr  
                   100                  105                  110

Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser  
                   115                  120                  125

<210> 42  
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<400> 42

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1                  5                  10                  15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Arg Lys  
                   20                  25                  30

Asn Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu  
                   35                  40                  45

Ile Tyr Asp Ala Ser Ser Asn Glu Arg Gly Val Pro Ser Arg Phe Ser  
                   50                  55                  60

Gly Arg Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65                  70                  75                  80

Pro Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Ser Ser Pro  
                   85                  90                  95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
                   100                  105

<210> 43  
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<400> 43

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1                  5                  10                  15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Arg Asn  
                   20                  25                  30

His Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu  
35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Tyr  
50 55 60

Gly Ser Gly Tyr Gly Arg Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro  
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

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<400> 44

Gln Asp Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Ser  
20 25 30

Arg Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu  
35 40 45

Leu Ile Tyr Asp Ala Ser Lys Arg Ala Thr Gly Val Pro Val Arg Phe  
50 55 60

Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu  
65 70 75 80

Gly Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Gly Tyr Asn Trp  
85 90 95

Pro Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 45  
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<400> 45

Phe Tyr Gly Met Val  
1 5

<210> 46  
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<400> 46

Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 47  
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<400> 47

Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr  
1 5 10

<210> 48  
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<212> PRT  
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<400> 48

Arg Tyr Leu Met Met  
1 5

<210> 49  
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<400> 49

Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 50  
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<400> 50

Ser Ile Ala Ala Ala Gly Thr Asp Tyr  
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<210> 51  
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<400> 51

Asn Tyr Phe Met Ile  
1 5

<210> 52  
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<400> 52

Trp Ile Ser Pro Ser Gly Gly Thr Thr Gln Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

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<400> 53

Glu Ala Gly Tyr  
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Ala Tyr Tyr Met Gly  
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<400> 55

Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 56  
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<400> 56

Gly Pro His Gly Gln Gly Gly Val Asp Ser  
1 5 10

<210> 57  
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<400> 57

Glu Tyr Phe Met Thr  
1 5

<210> 58  
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<400> 58

Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 59  
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&lt;400&gt; 59

Val	Ser	Arg	Tyr	Tyr	Asn	Asn	Gly	Ala	Tyr	Arg	Leu	Asp	Ala	Phe	Asp
1				5					10					15	

Ile

&lt;210&gt; 60

&lt;211&gt; 5

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&lt;400&gt; 60

Ala	Tyr	Arg	Met	Ala
1			5	

&lt;210&gt; 61

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

Tyr	Ile	Ser	Ser	Ser	Gly	Gly	Val	Thr	Ser	Tyr	Ala	Asp	Ser	Val	Lys
1				5					10					15	

Gly

&lt;210&gt; 62

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

Gly	Thr	His	Leu	Pro	Gly	Val	Asp	Tyr
1				5				

&lt;210&gt; 63

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

Gly	Tyr	Ile	Met	Ala
1			5	

&lt;210&gt; 64

<211> 17  
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<213> Homo sapiens

<400> 64

Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 65  
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<400> 65

Glu Ala Gly Tyr  
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<210> 66  
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<213> Homo sapiens

<400> 66

Ser Tyr Pro Met Val  
1 5

<210> 67  
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<400> 67

Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 68  
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<400> 68

Glu Gly Ser Ala Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr

1 5 10 15

Tyr Met Asp Val  
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Lys Tyr Gln Met Thr  
1 5

<210> 70  
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<400> 70

Val Ile Ser Ser Ser Gly Gly Asp Thr Ala Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 71  
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<400> 71

Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala Phe Asp  
1 5 10 15

Ile

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<400> 72

Pro Tyr Trp Met Phe  
1 5

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<400> 73

Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 74  
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<400> 74

Val Gly Met Ser Thr Tyr Ala Phe Asp Ile  
1 5 10

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His Tyr Gly Met Ser  
1 5

<210> 76  
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<400> 76

Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 77  
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Gly Ser Leu Ser Ser Gly Trp Asp Tyr  
1 5

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<400> 78

Asn Tyr Arg Met Glu  
1 5

<210> 79  
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<400> 79

Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Gln Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 80  
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<400> 80

Gly Leu Tyr Arg  
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<400> 81

Trp Tyr Leu Met His  
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<210> 82  
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<400> 82



Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 83  
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<400> 83

Asp Leu Trp Phe Gly Glu Trp Asp Tyr  
1 5

<210> 84  
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<400> 84

Trp Tyr Ser Met Val  
1 5

<210> 85  
<211> 17  
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<400> 85

Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 86  
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<400> 86

Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr  
1 5 10

<210> 87  
<211> 5  
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<213> Homo sapiens

<400> 87

Val Tyr Ser Met Ala  
1 5

<210> 88

<211> 17

<212> PRT

<213> Homo sapiens

<400> 88

Gly Ile Trp Pro Ser Gly Gly Pro Thr Ala Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 89

<211> 10

<212> PRT

<213> Homo sapiens

<400> 89

Glu Asp Phe Trp Ser Gly Leu Glu Asp Val  
1 5 10

<210> 90

<211> 13

<212> PRT

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<400> 90

Ser Gly Ser Ser Ser Asn Ile Gly Ser Glu Tyr Val Tyr  
1 5 10

<210> 91

<211> 7

<212> PRT

<213> Homo sapiens

<400> 91

Arg Asn Asp Gln Arg Pro Ser  
1 5

<210> 92

<211> 11

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<400> 92

Ala Ala Trp Asp Asp Ser Leu Pro Gly Trp Cys  
1 5 10

<210> 93

<211> 13

<212> PRT

<213> Homo sapiens

<400> 93

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn  
1 5 10

<210> 94

<211> 7

<212> PRT

<213> Homo sapiens

<400> 94

Asn Asn Asn Gln Arg Pro Ser  
1 5

<210> 95

<211> 11

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<400> 95

Ala Ala Trp His Asp Gly Leu Asn Gly Pro Val  
1 5 10

<210> 96

<211> 11

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<400> 96

Lys Ala Ser Gln Ser Val Arg Ala Phe Ile Ala  
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Gly Ala Ser Asn Arg Ala Thr  
1 5

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Gln Gln Tyr Gly Ser Ser Arg Tyr Thr  
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<400> 99

Arg Ser Ser Gln Ser Leu Leu His Ser Ser Gly Tyr Asn Tyr Leu Asp  
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Leu Gly Ser Asn Arg Ala Ser  
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Met Gln Ala Leu Gln Thr Pro Thr  
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<400> 102

Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala  
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<400> 103

Gly Ala Ser Thr Arg Ala Thr  
1 5

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Gln Gln Tyr Ala Gly His Pro Ile Thr  
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Thr Gly Ala Thr Arg Asp Val Ser  
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Tyr Glu Val Ser Ser Arg Pro Ser  
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<400> 107

Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val  
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<210> 108  
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<212> PRT  
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<400> 108

Arg Ser Ser Gln Ser Leu Met His Arg Asn Gly His His Phe Phe Asp  
1 5 10 15

<210> 109

<211> 7

<212> PRT

<213> Homo sapiens

<400> 109

Trp Ala Ser Asn Arg Ala Pro  
1 5

<210> 110

<211> 9

<212> PRT

<213> Homo sapiens

<400> 110

Met Gln Ala Leu Gln Thr Pro Tyr Thr  
1 5

<210> 111

<211> 11

<212> PRT

<213> Homo sapiens

<400> 111

Gln Ala Ser Gln Asn Ile Asp Asn Tyr Leu Asn  
1 5 10

<210> 112

<211> 7

<212> PRT

<213> Homo sapiens

<400> 112

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 113

<211> 9

<212> PRT

<213> Homo sapiens

<400> 113

Gln Gln Ser Tyr Ser Thr Pro Arg Thr

1

5

<210> 114  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 114

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Tyr  
1 5 10

<210> 115  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 115

Arg Asn Asn Gln Arg Pro Ser  
1 5

<210> 116  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 116

Ala Ala Trp Asp Asp Ser Leu Asn Ala Trp Val  
1 5 10

<210> 117  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 117

Lys Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 118  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 118

Leu Gly Ser Asn Arg Ala Ser  
1 5

<210> 119

<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 119

Met Gln Ala Leu Gln Thr Ile Thr  
1 5

<210> 120  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 120

Arg Ala Ser Gln Ser Ile Ser Arg Trp Leu Ala  
1 5 10

<210> 121  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 121

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 122  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 122

Gln Gln Ser Tyr Ser Thr Pro Leu Thr  
1 5

<210> 123  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 123

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser  
1 5 10

<210> 124  
<211> 7  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 124

Gln Asp Arg Lys Arg Pro Ser  
1 5

&lt;210&gt; 125

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 125

Gln Ser Trp Asp Ser Ser Ser Val Ile  
1 5

&lt;210&gt; 126

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
1 5 10

&lt;210&gt; 127

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

Ala Ala Ser Ser Leu Gln Ser  
1 5

&lt;210&gt; 128

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

Gln Gln Ala Asn Ser Phe Pro Leu Thr  
1 5

&lt;210&gt; 129

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
1 5 10

<210> 130  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 130

Glu Val Asn Lys Arg Pro Ser  
1 5

<210> 131  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 131

Ser Ser Tyr Ala Gly Arg Asn Phe Val Val  
1 5 10

<210> 132  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 132

Gly Gly Asn Asn Ile Gly Thr Lys Ile Val Asn  
1 5 10

<210> 133  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 133

Asp Asn Ser Asp Arg Pro Ser  
1 5

<210> 134  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 134

Gln Leu Trp Asp Ser Ser Ser Asp His Pro Ile  
1 5 10

<210> 135  
<211> 123

<212> PRT  
<213> Homo sapiens

<400> 135

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe Tyr  
20 25 30

Gly Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr  
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 136  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 136

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val Arg Ser Ile Ala Ala Ala Gly Thr Asp Tyr Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser  
115

<210> 137  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 137

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
20 25 30

Phe Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Trp Ile Ser Pro Ser Gly Gly Thr Thr Gln Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
100 105 110

Ser

<210> 138  
<211> 119  
<212> PRT

<213> Homo sapiens

<400> 138

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr  
20 25 30

Tyr Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Pro His Gly Gln Gly Gly Val Asp Ser Trp Gly Gln Gly  
100 105 110

Thr Leu Val Thr Val Ser Ser  
115

<210> 139

<211> 126

<212> PRT

<213> Homo sapiens

<400> 139

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Glu Tyr  
20 25 30

Phe Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Ser Arg Tyr Tyr Asn Asn Gly Ala Tyr Arg Leu Asp Ala  
100 105 110

Phe Asp Ile Trp Gly Pro Gly Thr Val Val Thr Val Ser Ser  
115 120 125

<210> 140

<211> 118

<212> PRT

<213> Homo sapiens

<400> 140

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr  
20 25 30

Arg Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Lys Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr His Leu Pro Gly Val Asp Tyr Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser  
115

<210> 141

<211> 113

<212> PRT

<213> Homo sapiens

&lt;400&gt; 141

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr  
20 25 30

Ile Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
100 105 110

Ser

&lt;210&gt; 142

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 142

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65

70

75

80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Gly Ser Ala Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr  
100 105 110

Tyr Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
115 120 125

Ser

<210> 143  
<211> 126  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 143

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr  
20 25 30

Gln Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Ser Ser Gly Gly Asp Thr Ala Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala  
100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser  
115 120 125

&lt;210&gt; 144



<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 144

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Met Ser Thr Tyr Ala Phe Asp Ile Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser  
115

<210> 145  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 145

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Leu Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr  
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Gly Ser Leu Ser Ser Gly Trp Asp Tyr Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser  
115

<210> 146  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 146

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
20 25 30

Arg Met Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Leu Tyr Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
100 105 110

Ser

<210> 147  
<211> 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr  
20 25 30

Leu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Leu Trp Phe Gly Glu Trp Asp Tyr Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser  
115

&lt;210&gt; 148

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr  
20 25 30

Ser Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr Trp  
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 149  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 149

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Val Tyr  
20 25 30

Ser Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Trp Pro Ser Gly Gly Pro Thr Ala Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Asp Phe Trp Ser Gly Leu Glu Asp Val Trp Gly Lys Gly  
100 105 110

Thr Thr Val Thr Val Ser Ser  
115

<210> 150  
<211> 110  
<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 150

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Glu  
20 25 30

Tyr Val Tyr Trp Phe Gln Gln Leu Pro Gly Thr Ala Pro Arg Leu Leu  
35 40 45

Ile Tyr Arg Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Pro Gly Trp Cys Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

&lt;210&gt; 151

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 151

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp His Asp Gly Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 152  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 152

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Arg Ala  
20 25 30

Phe Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
35 40 45

Ile Ser Gly Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
50 55 60

Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Arg  
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 153  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 153

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Ser Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln

35

40

45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys  
 100 105 110

<210> 154  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 154

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro  
 1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser  
 20 25 30

Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
 35 40 45

Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser  
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Ser Ser Leu Gln  
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ala Gly His Pro  
 85 90 95

Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105

<210> 155  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 155

Gln Ser Glu Leu Thr Gln Ala Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Leu Ser Cys Thr Gly Ala Thr Arg Asp Val Ser Trp Tyr  
20 25 30

Gln Gln His Pro Gly Lys Ala Pro Lys Leu Val Leu Tyr Glu Val Ser  
35 40 45

Ser Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Met Ser Gly  
50 55 60

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala  
65 70 75 80

Asp Tyr Tyr Cys Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val Phe  
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

&lt;210&gt; 156

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 156

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Met His  
20 25 30

Arg Asn Gly His His Phe Phe Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Asn Arg Ala Pro Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln  
85 90 95



Ala Leu Gln Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile  
100 105 110

Lys

<210> 157  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 157

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile  
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Gln Ala Ser Gln Asn Ile Asp Asn  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 158  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 158

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
 85 90 95

Asn Ala Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 159  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 159

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110

<210> 160  
 <211> 108  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105

&lt;210&gt; 161

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 161

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Leu  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 162  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 162

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Ser Leu Ser Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro  
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 163  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 163

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe

35

40

45

Met Ile Tyr Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe  
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu  
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Arg  
85 90 95

Asn Phe Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 164  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 164

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln  
1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Thr Lys Ile Val  
20 25 30

Asn Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Val Val Tyr  
35 40 45

Asp Asn Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Leu Trp Asp Ser Ser Ser Asp His  
85 90 95

Pro Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu  
100 105

<210> 165  
<211> 317  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 165

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys  
1 5 10 15

Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu  
20 25 30

Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu  
35 40 45

Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln  
50 55 60

Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala  
65 70 75 80

Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu  
85 90 95

Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser  
100 105 110

Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp  
115 120 125

Val Arg Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu  
130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg  
145 150 155 160

Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg  
165 170 175

Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu  
180 185 190

Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val  
195 200 205

Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg  
210 215 220

Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly

225                      230                      235                      240  
 Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu  
                                  245                      250                      255  
 Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala  
                                  260                      265                      270  
 Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu  
                                  275                      280                      285  
 Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala  
                                  290                      295                      300  
 Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
 305                      310                      315  
  
 <210> 166  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 166  
 Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys  
 1                      5                      10                      15  
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu  
                                  20                      25                      30  
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu  
                                  35                      40                      45  
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln  
                                  50                      55                      60  
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala  
 65                      70                      75                      80  
 Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu  
                                  85                      90                      95  
 Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser  
                                  100                      105                      110  
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp

115 120 125

Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu  
130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg  
145 150 155 160

Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg  
165 170 175

Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu  
180 185 190

Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val  
195 200 205

Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg  
210 215 220

Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly  
225 230 235 240

Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu  
245 250 255

Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala  
260 265 270

Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu  
275 280 285

Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala  
290 295 300

Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
305 310 315

<210> 167  
<211> 317  
<212> PRT  
<213> Homo sapiens

<400> 167

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys



1	5	10	15
Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu	20	25	30
Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu	35	40	45
Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln	50	55	60
Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala	65	70	75
Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu	85	90	95
Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser	100	105	110
Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp	115	120	125
Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu	130	135	140
Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg	145	150	155
Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys	165	170	175
Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu	180	185	190
Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val	195	200	205
Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg	210	215	220
Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly	225	230	235
			240

Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu  
245 250 255

Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala  
260 265 270

Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu  
275 280 285

Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala  
290 295 300

Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
305 310 315

<210> 168

<211> 299

<212> PRT

<213> Homo sapiens

<400> 168

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln  
1 5 10 15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg  
20 25 30

Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln  
35 40 45

Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met  
50 55 60

Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu  
65 70 75 80

Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu  
85 90 95

Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Arg  
100 105 110

Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln  
115 120 125

Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu  
130 135 140

Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala  
145 150 155 160

Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala  
165 170 175

Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala  
180 185 190

Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln  
195 200 205

Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg  
210 215 220

Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg  
225 230 235 240

Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala  
245 250 255

Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met  
260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly  
275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
290 295

<210> 169

<211> 299

<212> PRT

<213> Homo sapiens

<400> 169

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln  
1 5 10 15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg  
20 25 30

Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln  
 35 40 45

Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met  
 50 55 60

Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu  
 65 70 75 80

Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu  
 85 90 95

Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys  
 100 105 110

Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln  
 115 120 125

Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu  
 130 135 140

Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala  
 145 150 155 160

Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala  
 165 170 175

Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala  
 180 185 190

Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln  
 195 200 205

Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg  
 210 215 220

Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg  
 225 230 235 240

Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala  
 245 250 255

Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met  
 260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly  
275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
290 295

<210> 170  
<211> 299  
<212> PRT  
<213> Homo sapiens

<400> 170

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln  
1 5 10 15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg  
20 25 30

Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln  
35 40 45

Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met  
50 55 60

Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu  
65 70 75 80

Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu  
85 90 95

Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys  
100 105 110

Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln  
115 120 125

Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu  
130 135 140

Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys Leu Ala  
145 150 155 160

Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala  
165 170 175

Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala  
180 185 190

Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln  
195 200 205

Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg  
210 215 220

Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg  
225 230 235 240

Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala  
245 250 255

Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met  
260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly  
275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
290 295

<210> 171  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 171  
caagacatcc agatgaccca gtctccaggc accctgtctt tgtctccagg ggaaagagcc  
60

accctctcct gcagggccag tcagagtatt ggcagccgct acttagcctg gtaccagcag  
120

aaacctggcc aggctcccag gtcctcatc tatgatgcac ccaagagggc cactggcgctc  
180

ccagtcaggt tcagcggcag tggatctggg acagacttca ctctcaccat cagcagcctg  
240

gggcctgaag attttgagc ttattactgc caacagggct acaactggcc tccgtggacg  
300

ttcggccaag ggaccaaggt ggaaatcaaa  
330

<210> 172

<211> 384  
<212> DNA  
<213> Homo sapiens

<400> 172  
gaagttcaat tgtagagtc tggtagcgt cttgttcagc ctggtggttc ttacgtctt  
60  
tcttgcgctg cttccggatt cactttctct tattacgcta tgcagtgggt tcgccaagct  
120  
cctggtaaag gtttgagtg ggtttcttct ctctatcctt ctggtggcaa tacttcttat  
180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggctgc  
300  
gggaattacg atttttggag tgcgggctac tactactact acatggacgt ctggggcaaa  
360  
gggaccacgg tcaccgtctc aagc  
384

<210> 173  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 173  
caagacatcc agatgacca gtctccatcc tccctgtctg catctgtagg agacagagtc  
60  
accatcactt gccgggcaag tcagcgcata agaaagaatt tacattggta tcagcagaaa  
120  
ccagggaag cccctaacct cctgatctat gatgcatcca gtaacgaacg tgggggtccca  
180  
tcaaggttca gtggcagagg atctgggaca gagttcactc tcaccatcag cagtctacaa  
240  
cctgaagatc ttgcaactta ctactgtcaa cagagtttca gtagccctg gacgttcggc  
300  
caagggacca aggtggaaat caaa  
324

<210> 174  
<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 174

gaagttcaat tgtagagtc tggtagcggc cttgttcagc ctggtgggtc tttacgtctt  
60

tcttgccgtg cttccggatt cactttctct aagtactcta tgcattgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttctggt atctattctt ctggtggcaa gactatttat  
180

gctgactccg ttaaaggctg cttcactatc tctagagaca accctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatcgctt  
300

gatcttgact actggggcca ggaaccctg gtcaccgtct caagc  
345

<210> 175

<211> 324

<212> DNA

<213> Homo sapiens

<400> 175

caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc  
60

accatcactt gccggacaag tcaggacatt agaaatcatt taggctgggt tcagcagaaa  
120

ccagggaaag cccctcagcg cctgattcgt gaagcatcca tttacaaaag tgggggtcca  
180

tcaacatddd acggcagtggt atatgggaga gaattcactc tcacaatcag cagcctgcag  
240

cctgaggatt ttgcaacctt ttattgtcta caatatgatt ctttcccata cacctttggc  
300

caggggacca agctggagat caaa  
324

<210> 176

<211> 345

<212> DNA

<213> Homo sapiens

<400> 176

gaagttcaat tgtagagtc tggtagcggc cttgttcagc ctggtgggtc tttacgtctt  
60

tcttgccgtg cttccggatt cactttctct atgtacatga tggattgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttcttct atctggcctt ctggtggcca gacttggtat  
180



gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatccgtc  
300

ctccttgact actggggcca ggaaccctg gtcaccgtct caagc  
345

<210> 177  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 177  
cagtacgaat tgactcagcc accctcagtg tctgggaccc ccgggcagag ggtcaccatc  
60

tcttggttctg gaagcagttc caacatcgga agtgagtatg tgtactgggt ccagcagctc  
120

ccaggaacgg cccccagact cctcatctat aggaatgatc agcggccctc aggggtccct  
180

gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggcctccag  
240

tctgaggatg aggctgatta ttactgtgca goatgggatg acagcctgcc tggttgggtg  
300

tccggcggcg ggaccaagct gaccgtccta  
330

<210> 178  
<211> 369  
<212> DNA  
<213> Homo sapiens

<400> 178  
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtggttc tttacgtctt  
60

tcttgcgctg cttccggatt cactttctct ttttacggta tggtttgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttcttct atctctcctt ctggtggcta tactctttat  
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaaagatggg  
300

agacggcccc actatgggtc ggggaggtgg gcctactggg gccagggaac cctggtcacc  
360

gtctcaagc  
369

<210> 179  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 179  
cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc  
60

tcttgttctg gaagcagctc caacatcgga agtaatactg taaactggta ccagcagctc  
120

ccaggaacgg cccccaaact cctcatctat aataataatc agcggccctc aggggtccct  
180

gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag  
240

tctgaggatg aggctgatta ttactgtgca gcatggcatg acggcctgaa tgggtccggtg  
300

ttcggcggag ggaccaagct gaccgtccta  
330

<210> 180  
<211> 354  
<212> DNA  
<213> Homo sapiens

<400> 180  
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt  
60

tcttgcgctg cttccggatt cactttctct cgttacctta tgatgtgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttctgtt atctctcctt ctgggtggccg tacttggtat  
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgt gaggagtata  
300

gcagcagctg gaactgacta ctggggccag ggaaccctgg tcaccgtctc aagc  
354

<210> 181  
<211> 321  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 181

gacatccaga tgacccagtc tccagccacc ctgtctttgt ctccagggga aagagccacc  
60ctctcttgta aggccagtca gagtgttcgc gccttcatag cctgggtacca gcagaaacct  
120ggccaggctc ccaggctcct catctctggt gcatccaaca gggccactgg catcccagac  
180aggttcagtg gcggtgggtc tgggacagac ttcactctca ccatcagcag actggagcct  
240gaagattttg cagtgtatta ctgtcagcag tacggtagtt cacggtagac ttttggccag  
300gggaccaagc tggagatcaa a  
321

&lt;210&gt; 182

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt  
60tcttgcgctg cttccggatt cactttctct aattacttta tgatttgggt tcgccaagct  
120cctggtaaag gtttggagtg ggtttcttgg atctctcctt ctgggtggcac tactcagtat  
180gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac  
240ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc  
300ggctactggg gccagggaac cctgggtcacc gtctcaagc  
339

&lt;210&gt; 183

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 183

gacatccaga tgacccagtc tccatcctcc ctgcccgtca cccctggaga gccggcctcc  
60atctcctgca ggtctagtca gagcctccta catagtagtg gatacaacta tttggattgg  
120tacctgcaga agccaggaca gtctccacaa ctctgattt atttgggttc taatcgggcc  
180

tccgggggtcc ctgacaggtt cactggcagt ggatcaggca cagattttac actgaaaatc  
240

agcagagtgg aggctgagga tggtgggggt tattactgca tgcaagctct acaaaccccc  
300

actttcggcg gagggaccaa ggtggacatc aaa  
333

<210> 184  
<211> 357  
<212> DNA  
<213> Homo sapiens

<400> 184  
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt  
60

tcttgcgctg cttccggatt cactttctct gcttactata tgggttgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttctgtt atccgtcctt ctggtggcaa gactaagtat  
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcccc  
300

catggtcagg ggggtgttga ctcgtagggc cagggaaccc tggtcaccgt ctcaagc  
357

<210> 185  
<211> 321  
<212> DNA  
<213> Homo sapiens

<400> 185  
gacatccaga tgaccagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc  
60

ctctcctgta gggccagtca gagtgttagc agcaacttag cctggtacca gcagaaacct  
120

ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg cgtcccagcc  
180

aggttcagtg gcagtgggtc tgggacagac ttcactctct ccatcagcag cctgcagcct  
240

gaagactttg caacttatta ctgtcaacag tatgctggtc accccatcac cttcggccaa  
300

gggacccgac tggagattaa a  
321

<210> 186  
<211> 378  
<212> DNA  
<213> Homo sapiens

<400> 186  
gaagttcaat tgtagagtc tggtagcggc ctgttcagc ctggtgggtc ttacgtctt  
60  
tcttgcgctg cttccgatt cactttctct gagtacttta tgacttgggt tcgccaagct  
120  
cctggtaaag gtttgagtg ggtttcttct atccgtcctt ctggtggcaa gactcgttat  
180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagttagt  
300  
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360  
gtggtcaccg tctcaagc  
378

<210> 187  
<211> 315  
<212> DNA  
<213> Homo sapiens

<400> 187  
cagagcgaat tgactcagc tgctcgtg tctgggtctc ctggacagtc gatcacctc  
60  
tcctgcactg gagccaccag ggacgtctcc tggtaaccagc aacacccagg caaggcccc  
120  
aaactcgtcc ttatgaagt cagtagtcgc cctcaggcg ttccgatcg cttctctggc  
180  
tccatgtctg gcaacacggc ctccctgacc atctctggac tccaggctga ggacgaggct  
240  
gattattact gtcctcaac cacaagtcgc gccctcgcg tggttttcgg cggagggacc  
300  
aaactgaccg tccta  
315

<210> 188  
<211> 354  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 188

gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtggttc ttacgtctt  
60tcttgcgctg cttccggatt cactttctct gcttacgta tggcttgggt tcgccaagct  
120cctggtaaag gtttggagtg ggtttcttat atctcttctt ctggtggcgt tacttcttat  
180gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac  
240ttgcagatga agagcttaag ggctgaggac actgcagtct actattgtgc gagaggcacg  
300cacctcccgg gggttgacta ctggggccag ggaaccctgg tcaccgtctc aagc  
354

&lt;210&gt; 189

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 189

gacatccaga tgaccagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc  
60atctcctgca gatctagtca gagcctcatg cataggaatg gacaccactt cttcgattgg  
120tacctgcaga agccagggca gtctccacag ctctgatct attgggcttc taatcgggcc  
180cccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagactttac actaaaaatc  
240agcagagtgg aggctgagga tgttgggatt tattactgca tgcaagctct acaaaccctg  
300tacacttttg gccaggggac caagctggag atcaaa  
336

&lt;210&gt; 190

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 190

gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtggttc ttacgtctt  
60tcttgcgctg cttccggatt cactttctct ggttacatta tggcttgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttctggt atcgggttctt ctggtggcct tactgcttat  
180

gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc  
300

ggctactggg gccagggaac cctggtcacc gtctcaage  
339

<210> 191  
<211> 321  
<212> DNA  
<213> Homo sapiens

<400> 191  
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctataggaga cagagtcacc  
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atctcttgcc aggcgagtca aaacattgac aactatttaa attggtatca gcagaaacca  
120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca  
180

aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct  
240

gaagattttg caacttacta ctgtcaacag agttacagta cccctcgaac gttcggccaa  
300

gggaccaagg tggaaatcaa a  
321

<210> 192  
<211> 387  
<212> DNA  
<213> Homo sapiens

<400> 192  
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt  
60

tcttgcgctg cttccggatt cactttctct tcttacccta tggtttgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttctggt atctggtctt ctggtggcct tacttattat  
180

gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagagggc  
300

tcggccggag tggttaaagg gccggcccg tactactact actacatgga cgtctggggc  
360

aaagggacca cggtcaccgt ctcaagc  
387

<210> 193  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 193  
cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc  
60

tcttgttctg gaagcagctc caacatcgga agtaattatg tatactggta ccagcagctc  
120

ccaggaacgg cccccaaact cctcatctat aggaataatc agcggccctc aggggtccct  
180

gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag  
240

tctgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgaa tgcctgggtg  
300

ttcggcggag ggaccaagct gaccgtccta  
330

<210> 194  
<211> 378  
<212> DNA  
<213> Homo sapiens

<400> 194  
gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtgggtc ttacgtctt  
60

tcttgcgctg cttccggatt cactttctct aagtaccaga tgacttgggt tcgccaagct  
120

cctggtaaag gtttgagtg ggtttctgtt atctcttctt ctggtggcga tactgcttat  
180

gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcgg  
300

ggttattgta gtggtataac ttgctatatt gatgcttttg atatctgggg ccaagggaca  
360

atggtcaccg tctcaagc  
378



<210> 195  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 195  
gacatccaga tgaccagtc tccactctcc ctgccgtca cccctggaga gccggcctcc  
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atctcctgca agtctagtca gagcctcctg catagtaatg gatacaacta tttagattgg  
120  
tacctgcaga aaccagggca gtctccacag ctctgatct ctttgggttc taatcgggcc  
180  
tccgggggtcc ctgccagggt cagtggcagt ggctcaggca cagattttac actgaaaatc  
240  
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300  
accttcggcc aaggacacg actggagatt aaa  
333

<210> 196  
<211> 357  
<212> DNA  
<213> Homo sapiens

<400> 196  
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt  
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tcttgcgctg cttccggatt cactttctct ccttactgga tgttttgggt tcgccaagct  
120  
cctggtaaag gtttggagtg ggtttctggc atcgtttctt ctgggtggcat gactggttat  
180  
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac  
240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagtgggg  
300  
atgtccacct atgcttttga tatctggggc caagggacaa tggtcaccgt ctcaagc  
357

<210> 197  
<211> 321  
<212> DNA  
<213> Homo sapiens

<400> 197  
gacatccaga tgaccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc  
60

atcacttgcc gggccagtca gagtattagt aggtggttgg cctggtatca gcagaaacca  
120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca  
180

aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct  
240

gaagattttg caacttacta ctgtcaacag agttacagta ccccgctcac tttcggcgga  
300

gggaccaagg tggagatcaa a  
321

<210> 198  
<211> 354  
<212> DNA  
<213> Homo sapiens

<400> 198  
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60

tcttgcgctg cttccggatt cactttctct cattacggta tgtcttgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttcttct atccgttctt ctggtggccg tacttggtat  
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagttt actattgtgc gaaaggctcc  
300

cttagcagtg gctgggacta ctggggccag ggaaccctgg tcaccgtctc aagc  
354

<210> 199  
<211> 318  
<212> DNA  
<213> Homo sapiens

<400> 199  
cagagcgctt tgactcagcc accctcagtg tccgtgtccc ctggacagac agccagcatc  
60

acctgcgctg gagatgaatt gggtaataaa tatgcttcct ggtatcagca gaagccaggc  
120

cagtcccctg tgctgggtcat ctatcaagat aggaagcggc cctcagggat ccctgagcga  
180

ttctctggct cccactctgg gaacacagcc actctgacca tcagcgggac ccaggctctc  
240

gatgaggctg actattactg tcagtcgtgg gacagcagct ctgtgatatt cggcggcggg  
300

accaaggtga ccgtccta  
318

<210> 200  
<211> 339  
<212> DNA  
<213> Homo sapiens

<400> 200  
gaagttcaat tgttagagtc tgggtggcgg tctgttcagc ctggtgggtc tttacgtctt  
60

tcttgcgctg cttccggatt cactttctct aattaccgta tggagtgggt tcgccaagct  
120

cctggtaaag gtttgagtg ggtttcttct atctggtctt ctggtggcct tactaaggag  
180

gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcctg  
300

taccggtggg gccagggaac cctggtcacc gtctcaagc  
339

<210> 201  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 201  
cagtacgaat tgactcagcc tccctccgcg tccgggtctc ctggacagtc agtcaccatc  
60

tcctgcactg gaaccagcag tgacgttggt gggtataact atgtctcctg gtaccaacag  
120

catccaggca aagcccccaa attcatgatt tatgagggtca ataagcggcc ctcaggggtc  
180

cctgatcgct tctctggctc caagtctggc aacacggcct ccctgaccgt ctctgggctc  
240

caggctgagg atgaggctga ttattactgc agctcatatg caggcaggaa ctttgtggta  
300

ttcggcggag ggaccaagct gaccgtccta  
330

<210> 202

<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 202  
gaagttcaat tgtagagtc tggtagcggc cttgttcagc ctggtaggtc ttacgtctt  
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tcttgccgtg cttccggatt cactttctct tggtagtcta tggtttgggt tcgccaagct  
120  
cctggtaaag gtttggagtg ggtttcttct atcggtcctt ctggtagcat gactcgttat  
180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac  
240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcaa  
300  
gggattacta tggttcaggg agctatgggc tactggggcc aggaaccct ggtcaccgtc  
360  
tcaagc  
366

<210> 203  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 203  
cagagcgtt tgactcagcc accctcgggt tcagtggccc caggacagac ggccaggatt  
60  
acctgtgggg gaaacaacat tggtagtaaa attgtaaact ggtaccagca gaggccaggc  
120  
caggcccttg tggtagtcgt ctatgataat agcgaccggc cctcagggat cctgagcga  
180  
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaagccggg  
240  
gatgaggccg actattactg tcagctgtgg gatagtagta gtgaccatcc gatcttcgga  
300  
actgggacca aggtcaccgt ccta  
324

<210> 204  
<211> 357  
<212> DNA  
<213> Homo sapiens

<400> 204

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60

tcttgcgctg cttccggatt cactttctct gtttactcta tggcttgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttctggt atctggcctt ctggtggccc tactgcttat  
180

gctgactccg ttaaagggtc cttcactatc tctagagaca actotaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagat  
300

ttttggagtg gtttggagga cgtctggggc aaagggacca cggtcaccgt ctcaagc  
357

<210> 205  
<211> 321  
<212> DNA  
<213> Homo sapiens

<400> 205  
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc  
60

atcaattgcc gggcaagtca gagcattagc agctatttaa attggtatca gcagaaacca  
120

gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca  
180

aggttcagtg gcagtggatc tgggacagaa ttctctctct ccatcagcag cctgcagcct  
240

gaagattttg caacttacta ttgtcaacag gctaacagtt tccctctcac tttcggcgga  
300

gggaccaagg tggagatcaa a  
321

<210> 206  
<211> 354  
<212> DNA  
<213> Homo sapiens

<400> 206  
gaagttcaat tgttagagtc tggtagcggt cttgttcagc ctggtgggtc tttacgtctt  
60

tcttgcgctg cttccggatt cactttctct tggtagctta tgcattgggt tcgccaagct  
120

cctggtaaag gtttggagtg ggtttcttct atcgttcctt ctggtggcac tactgtttat  
180

gctgactccg ttaaaggctcg cttcactatc tctagagaca actctaagaa tactctctac  
240

ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaccta  
300

tggttcgggg agtgggacta ctggggccag ggaaccctgg tcaccgtctc aagc  
354

<210> 207  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 207

Gly Val Leu Asp His Tyr  
1 5

<210> 208  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 208

Gly Ile Leu His Asp Tyr  
1 5

<210> 209  
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<212> PRT  
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<400> 209

Gly Val Leu Leu Asp Lys  
1 5

<210> 210  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 210

Gly Val Leu Phe Asp Asn  
1 5

<210> 211  
<211> 11  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 211

Arg	Ala	Ser	Gln	Asn	Ile	His	Thr	Trp	Leu	Ala
1				5					10	

&lt;210&gt; 212

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 212

Arg	Ser	Ser	Gln	Ser	Leu	Ala	Ser	Ser	Asp	Gly	Asn	Met	Tyr	Leu	Asn
1				5					10					15	

&lt;210&gt; 213

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 213

Arg	Thr	Ser	Gln	Gly	Ile	Arg	Asn	His	Leu	Gly
1				5					10	

&lt;210&gt; 214

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 214

Arg	Ala	Ser	Gln	Thr	Ile	Ser	Arg	Tyr	Leu	Asn
1				5					10	

&lt;210&gt; 215

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 215

Arg	Ser	Ser	Arg	Asn	Leu	Leu	His	Arg	Asn	Gly	Asn	Asn	Tyr	Leu	Asp
1				5					10					15	

&lt;210&gt; 216

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

Arg	Ala	Ser	His	Gly	Ile	Asn	Gly	Tyr	Leu	Ala
1				5					10	

<210> 217  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 217

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr  
 100 105 110

Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
 115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
 130 135 140

<210> 218  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 218

Arg Thr Ser Gln Asp Ile Gly Asn His Leu Ala  
 1 5 10

<210> 219  
 <211> 11  
 <212> PRT



<213> Homo sapiens

<400> 219

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn  
1 5 10

<210> 220

<211> 11

<212> PRT

<213> Homo sapiens

<400> 220

Arg Ala Ser Gln Asp Ile Tyr Arg Trp Leu Val  
1 5 10

<210> 221

<211> 11

<212> PRT

<213> Homo sapiens

<400> 221

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
1 5 10

<210> 222

<211> 11

<212> PRT

<213> Homo sapiens

<400> 222

Arg Ala Ser Gln Asp Ile Arg Ser Tyr Leu Ala  
1 5 10

<210> 223

<211> 11

<212> PRT

<213> Homo sapiens

<400> 223

Arg Ala Ser Gln Asp Ile Ser Ile His Leu Ala  
1 5 10

<210> 224

<211> 11

<212> PRT

<213> Homo sapiens

<400> 224

Arg Ala Ser Lys Ser Val Ala Ser Tyr Val Ala  
1 5 10

<210> 225  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 225

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Asp  
1 5 10 15

<210> 226  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 226

Arg Ala Ser Arg Gly Ile Arg Asn Asn Leu Ala  
1 5 10

<210> 227  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 227

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105 110

<210> 228  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 228

Arg Ala Ser Gln Gly Ile Thr Asn Tyr Leu Ala  
1 5 10

<210> 229  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 229

Arg Ala Ser Gln Val Ile Gly Asn Tyr Leu Ala  
1 5 10

<210> 230  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 230

Arg Ala Ser Gln Ser Val Lys Met Asn Leu Ala  
1 5 10

<210> 231  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 231

Arg Ala Ser Gln Thr Ile Asn Asn Trp Leu Ala  
1 5 10

<210> 232  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 232

Arg Ala Ser Gln Asp Ile Glu Asn Tyr Leu Ala  
1 5 10

<210> 233  
<211> 11

<212> PRT  
<213> Homo sapiens

<400> 233

Arg Ala Ser Gln Asp Ile His Thr Trp Leu Ala  
1 5 10

<210> 234  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 234

Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala  
1 5 10

<210> 235  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 235

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Ala  
1 5 10

<210> 236  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 236

Arg Ala Ser Gln Asp Ile Arg Asn Ala Leu Gly  
1 5 10

<210> 237  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 237

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Gly Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 238  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 238

Arg Ala Ser Gln Asp Ile Arg Asn Asp Leu Gly  
1 5 10

<210> 239  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 239

Arg Ala Ser Gln Ser Val Asp Ser Trp Leu Ala  
1 5 10

<210> 240  
<211> 7  
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<213> Homo sapiens

<400> 240

Gly Ala Ser Ser Leu Gln Ser  
1 5

<210> 241  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 241

Lys Val Ser Asp Arg Asp Ser

1

5

<210> 242  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 242

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 243  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 243

Ala Thr Ser Thr Leu His Ser  
1 5

<210> 244  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 244

Met Gly Ser Asn Arg Ala Ser  
1 5

<210> 245  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 245

Ala Ala Ser Lys Leu Gln Ser  
1 5

<210> 246  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 246

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105 110

<210> 247  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 247

Gly Ala Ser Thr Val Gln Ser  
1 5

<210> 248

<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 248

Ala Ala Ser Ser Leu Gln Asn  
1 5

<210> 249  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 249

Ala Ala Phe Asn Leu Gln Ser  
1 5

<210> 250  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 250

Ala Ala Ser Thr Leu Gln Thr  
1 5

<210> 251  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 251

Asp Ala Ser Asn Arg Ala Thr  
1 5

<210> 252  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 252

His Ala Ser Thr Leu Gln Ser  
1 5

<210> 253  
<211> 7  
<212> PRT  
<213> Homo sapiens



<400> 253

Gly Ala Tyr Lys Leu Gln Tyr  
1 5

<210> 254

<211> 7

<212> PRT

<213> Homo sapiens

<400> 254

Gly Ala Ser His Leu Gln Ser  
1 5

<210> 255

<211> 7

<212> PRT

<213> Homo sapiens

<400> 255

Gly Ala Ser Ser Arg Ala Thr  
1 5

<210> 256

<211> 7

<212> PRT

<213> Homo sapiens

<400> 256

Lys Thr Ser Asn Leu Gln Ser  
1 5

<210> 257

<211> 7

<212> PRT

<213> Homo sapiens

<400> 257

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 258

<211> 7

<212> PRT

<213> Homo sapiens

<400> 258

Val Ala Ser Ser Leu Gln Asp  
1 5

<210> 259  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 259

Ala Ala Ser Asn Leu Gln Ser  
1 5

<210> 260  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 260

Thr Ala Ser Arg Leu Gln Ser  
1 5

<210> 261  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 261

Lys Ala Ser Ser Leu Gln Ser  
1 5

<210> 262  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 262

Gln Gln Ala Asn Ser Phe Pro Phe Ala  
1 5

<210> 263  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 263

Met Gln Gly Thr His Trp Pro Pro Thr  
1 5

<210> 264  
<211> 112

<212> PRT  
<213> Homo sapiens

<400> 264

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 265  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 265

Leu Gln Tyr Asn Asn Tyr Pro Phe Thr  
1 5

<210> 266  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 266

Met Gln Ala Leu Gln Ala Trp Thr  
1 5

<210> 267  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 267

Gln Gln Tyr Asp Ser Tyr Pro Phe Thr  
1 5

<210> 268

<211> 9

<212> PRT

<213> Homo sapiens

<400> 268

Gln Gln Tyr Asp Ala Phe Pro Phe Thr  
1 5

<210> 269

<211> 9

<212> PRT

<213> Homo sapiens

<400> 269

Gln Gln Tyr Lys Thr Tyr Pro Phe Thr  
1 5

<210> 270

<211> 9

<212> PRT

<213> Homo sapiens

<400> 270

Gln Gln Ala Asn Ser Phe Pro Trp Thr  
1 5

<210> 271

<211> 9

<212> PRT

<213> Homo sapiens

<400> 271

Leu Gln Phe Asn Thr Tyr Pro Phe Thr  
1 5

<210> 272

<211> 9

<212> PRT

<213> Homo sapiens

<400> 272

Leu Gln His Asp Ser Tyr Pro Phe Thr

1

5

<210> 273  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 273

Gln Gln Tyr Glu Ser Tyr Pro Phe Thr  
1 5

<210> 274  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 274

Gln Gln Tyr Tyr Asn Pro Tyr Thr  
1 5

<210> 275  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 275

Leu Gln Pro Glu Thr Tyr Pro Trp Thr  
1 5

<210> 276  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 276

Leu Gln Tyr Gln Thr Tyr Pro Phe Thr  
1 5

<210> 277  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 277

Gln Gln Ser Ser Ser Ile Pro Tyr Thr  
1 5

<210> 278

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 278

Gln Gln Tyr Ala Asn Trp Pro Phe His  
1 5

<210> 279  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 279

Gln Gln Tyr Lys Ala Phe Pro Trp Thr  
1 5

<210> 280  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 280

Gln Gln Tyr Ser Ser Tyr Pro Phe Thr  
1 5

<210> 281  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 281

Leu Gln His Asn Thr Tyr Pro Leu Thr  
1 5

<210> 282  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 282

Leu Gln His Asn Ser Tyr Pro Leu Thr  
1 5

<210> 283  
<211> 9  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 283

Gln Gln Tyr Ala Thr Leu Pro Arg Thr  
1 5

&lt;210&gt; 284

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

Leu Gln Tyr Asn Ser Tyr Pro Phe Thr  
1 5

&lt;210&gt; 285

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 285

Leu Gln Gln Lys Asn Tyr Pro Leu Thr  
1 5

&lt;210&gt; 286

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

Gln Gln Tyr Lys Ser Phe Pro Phe Thr  
1 5

&lt;210&gt; 287

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asn Ile His Thr  
20 25 30

Trp Leu Ala Trp Phe Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro  
85 90 95

Phe Ala Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105

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<210> 288
<211> 113
<212> PRT
<213> Homo sapiens
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<400> 288

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Ala Ser  
20 25 30

Ser Asp Gly Asn Met Tyr Leu Asn Trp Phe His Gln Arg Pro Gly Gln  
35 40 45

Ser Pro Arg Arg Leu Ile Tyr Lys Val Ser Asp Arg Asp Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Gly Thr His Trp Pro Pro Thr Phe Gly Pro Gly Thr Lys Val Asp Ile  
100 105 110

Lys

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<210> 289
<211> 108
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 289

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Gly Ile Arg Asn  
20 25 30

His Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu  
35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro  
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

&lt;210&gt; 290

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 290

Gln Asp Ile Gln Met Thr Gln Ser Pro Pro Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Thr Ile Ser Arg  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Thr Ser Thr Leu His Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Gly Leu Gln  
65 70 75 80

Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Asn Tyr Pro  
85 90 95

Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 291  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 291

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Leu Leu His  
20 25 30

Arg Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Ala Trp Thr Phe Gly Pro Gly Thr Arg Leu Asp Ile Lys  
100 105 110

<210> 292  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 292

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Asn Gly  
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Arg Ala Pro Lys Ser Leu  
35 40 45

Ile Tyr Ala Ala Ser Lys Leu Gln Ser Gly Val Pro Ser Lys Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Asn Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys  
100 105

<210> 293  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 293

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 294  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 294

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Gly Asn  
20 25 30

His Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu  
35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Ser Tyr Tyr Cys Gln Gln Tyr Asp Ala Phe Pro  
85 90 95

Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 295

<211> 108

<212> PRT

<213> Homo sapiens

<400> 295

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu  
35 40 45

Ile Tyr Gly Ala Ser Thr Val Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Lys Thr Tyr Pro  
85 90 95

Phe Thr Phe Gly Gln Gly Thr Arg Leu Asp Ile Lys  
100 105

<210> 296  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 296

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Tyr Arg  
20 25 30

Trp Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Thr Pro Glu Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Asn Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro  
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 297  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 297

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Phe Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50

55

60

Gly Gly Arg Ser Glu Ala Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Phe Asn Thr Tyr Pro  
85 90 95

Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Leu Lys  
100 105

&lt;210&gt; 298

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 298

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Thr  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Ser  
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asp Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Thr Leu Gln Thr Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asp Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Ser Lys Val Asp Ile Lys  
100 105

&lt;210&gt; 299

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 299

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ile  
20 25 30

His Leu Ala Trp Phe Gln Lys Lys Pro Gly Lys Ala Pro Lys Ser Leu  
35 40 45

Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Lys Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Glu Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys  
100 105

<210> 300  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 300

Gln Asn Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ala Ser  
20 25 30

Tyr Val Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu  
35 40 45

Met Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Ala Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu  
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asn Pro Tyr  
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 301  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 301

Gln Asp Ile Gln Met, Thr Gln Ser Pro Asp Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 302  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 302

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Ile Arg Asn  
20 25 30

Asn Leu Ala Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr His Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60



Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Pro Glu Thr Tyr Pro  
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 303  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 303

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Ser Gly Tyr His Tyr Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 304  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 304

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Thr Asn  
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu  
35 40 45

Met Tyr Gly Ala Tyr Lys Leu Gln Tyr Gly Val Pro Thr Lys Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Arg Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Gln Thr Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Leu Lys  
100 105

<210> 305

<211> 108

<212> PRT

<213> Homo sapiens

<400> 305

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Ser Ile Thr Cys Arg Ala Ser Gln Val Ile Gly Asn  
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr Gly Ala Ser His Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Ser Ser Ile Pro  
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 306  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 306

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Met Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Lys Met  
20 25 30

Asn Leu Ala Trp Tyr Gln His Lys Leu Gly Gln Ala Pro Arg Leu Leu  
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Asn Trp Pro  
85 90 95

Phe His Phe Gly Pro Gly Thr Thr Val Asp Ile Lys  
100 105

<210> 307  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 307

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Asn  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Gln Leu Leu  
35 40 45

Ile Tyr Lys Thr Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln

65

70

75

80

Val Asp Asp Phe Ala Thr Tyr His Cys Gln Gln Tyr Lys Ala Phe Pro  
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ser Lys  
100 105

&lt;210&gt; 308

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ala Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Val Thr Cys Arg Ala Ser Gln Asp Ile Glu Asn  
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Pro Lys Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105

&lt;210&gt; 309

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Ile Cys Arg Ala Ser Gln Asp Ile His Thr  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Thr Tyr Pro  
85 90 95

Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105

<210> 310

<211> 108

<212> PRT

<213> Homo sapiens

<400> 310

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr Val Ala Ser Ser Leu Gln Asp Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro  
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 311

<211> 108

<212> PRT  
<213> Homo sapiens

<400> 311

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Arg  
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Phe  
35 40 45

Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Leu Arg Gly Leu Glu  
65 70 75 80

Pro Glu Asp Ser Ala Val Tyr Phe Cys Gln Gln Tyr Ala Thr Leu Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105

<210> 312  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 312

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn  
20 25 30

Ala Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Thr Val Asp Ile Lys  
100 105

<210> 313  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 313

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn  
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 314  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 314

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Met Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn  
20 25 30

Asp Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr Thr Ala Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Gln Lys Asn Tyr Pro  
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 315  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 315

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Tyr Val  
1 5 10 15

Gly Asp Arg Val Asn Ile Pro Cys Arg Ala Ser Gln Ser Val Asp Ser  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Lys Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Ser Val Ser Ser Leu Gln  
65 70 75 80

Pro Asp Asp Phe Val Thr Tyr Tyr Cys Gln Gln Tyr Lys Ser Phe Pro  
85 90 95

Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 316  
<211> 128  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 316

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Val Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr  
100 105 110

Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
115 120 125

&lt;210&gt; 317

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65

70

75

80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Ile Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr  
100 105 110

Val Ser Ser  
115

<210> 318  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 318

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Val Leu Leu Asp Lys Trp Gly Gln Gly Thr Leu Val Thr  
100 105 110

Val Ser Ser  
115

<210> 319  
<211> 115  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 319

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Val Leu Phe Asp Asn Trp Gly Gln Gly Thr Leu Val Thr  
100 105 110

Val Ser Ser  
115

&lt;210&gt; 320

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

Ser Ile Ala Ala Asp Arg Thr Asp Tyr  
1 5

&lt;210&gt; 321

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 321

Ser Ile Ala Ala Ser Arg Thr Asp Tyr  
1 5

&lt;210&gt; 322

&lt;211&gt; 9

&lt;212&gt; PRT

<213> Homo sapiens

<400> 322

Ser Ile Ala Ser Ala Gly Thr Asp His  
1 5

<210> 323

<211> 9

<212> PRT

<213> Homo sapiens

<400> 323

Ser Ile Ala Ser Ala Arg Thr Asp Ser  
1 5

<210> 324

<211> 112

<212> PRT

<213> Homo sapiens

<400> 324

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Gly Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105 110

<210> 325

<211> 13

<212> PRT

<213> Homo sapiens

&lt;400&gt; 325

Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ile	Asn	Thr	Val	Asn
1				5					10			

&lt;210&gt; 326

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 326

Ser	Gly	Ser	Asn	Ser	Asn	Val	Gly	Thr	Lys	Thr	Val	Asn
1				5					10			

&lt;210&gt; 327

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 327

Ser	Gly	Ser	Ser	Ser	Asn	Ile	Glu	Thr	Asn	Thr	Val	Asn
1				5					10			

&lt;210&gt; 328

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

Ser	Gly	Gly	Ser	Ser	Asn	Ile	Gly	Ser	Asn	Thr	Val	Asn
1				5					10			

&lt;210&gt; 329

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Lys	Thr	Val	Asn
1				5					10			

&lt;210&gt; 330

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 330

Ser	Gly	Ser	Asn	Ser	Asn	Ile	Gly	Ser	Lys	Thr	Val	Asn
1				5					10			

<210> 331  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 331

Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn Asn Val Asn  
1 5 10

<210> 332  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 332

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 333  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 333

Ser Asn Asn Gln Arg Pro Ser  
1 5

<210> 334  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 334

Ser Asn Thr Gln Arg Pro Ser  
1 5

<210> 335  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 335

Ser Asp Asp Gln Arg Pro Ser  
1 5

<210> 336  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 336

Asn Ser Ser Gln Arg Pro Ser  
1 5

<210> 337  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 337

Asn Asn Ile Gln Arg Pro Ser  
1 5

<210> 338  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 338

Met Asn Tyr Glu Arg Pro Ser  
1 5

<210> 339  
<211> 7  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 339

Ser His His Arg Arg Pro Ser  
1 5

&lt;210&gt; 340

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 340

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

&lt;210&gt; 341

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 341

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val  
1 5 10

&lt;210&gt; 342

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 342



Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu  
1 5 10

<210> 343  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 343

Ala Ala Trp Asp Asp Ser Leu Ser Gly Pro Val  
1 5 10

<210> 344  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 344

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 345  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 345

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln

1				5					10					15		
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn	
			20					25					30			
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu	
		35					40					45				
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	
	50					55					60					
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln	
65					70					75					80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu	
				85					90					95		
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu			
			100					105					110			

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<210> 346
<211> 110
<212> PRT
<213> Homo sapiens
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<400> 346

Gln 1	Ser	Val	Leu	Thr 5	Gln	Pro	Pro	Ser	Ala 10	Ser	Gly	Thr	Pro	Gly 15	Gln
Arg	Val	Thr	Ile 20	Ser	Cys	Ser	Gly	Ser 25	Ser	Ser	Asn	Ile	Gly 30	Ile	Asn
Thr	Val	Asn 35	Trp	Tyr	Gln	Gln	Leu 40	Pro	Gly	Thr	Ala	Pro 45	Lys	Leu	Leu
Ile 50	Tyr	Ser	Asn	Asn	Gln	Arg 55	Pro	Ser	Gly	Val	Pro 60	Asp	Arg	Phe	Ser
Gly 65	Ser	Lys	Ser	Gly	Thr 70	Ser	Ala	Ser	Leu	Ala 75	Ile	Ser	Gly	Leu	Gln 80
Ser	Glu	Asp	Glu	Ala 85	Asp	Tyr	Tyr	Cys	Ala 90	Ala	Trp	Asp	Asp	Ser 95	Leu
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		

100 105 110

<210> 347  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 347

Gln Ser Val Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys  
 20 25 30

Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ser Asn Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
 85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu  
 100 105 110

<210> 348  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 348

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 349  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 349

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 350  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 350

Gln Ser Ala Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys  
20 25 30

Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu  
100 105 110

<210> 351  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 351

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 352  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 352

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
 85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 353  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 353

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

123/197

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 354  
<211> 110  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 354

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45 /

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 355  
<211> 110  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 355

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn

20

25

30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
 65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
 85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

&lt;210&gt; 356

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 356

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ser Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Pro Ser  
 50 55 60

Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser  
 65 70 75 80

Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys  
 85 90 95

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr  
 100 105 110

Lys Leu Thr Val Leu



115

<210> 357  
<211> 110  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 357

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 358  
<211> 110  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 358

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 359  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 359

Phe Tyr Ser His Ser Ala Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala  
1 5 10 15

Ala Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser  
20 25 30

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly  
35 40 45

Thr Ala Pro Lys Leu Leu Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly  
50 55 60

Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu  
65 70 75 80

Ala Ile Ser Gly Leu Gln Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala  
85 90 95

Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys  
100 105 110

Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro  
115 120

<210> 360  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 360

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Ser Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Phe Pro Arg Ala Ala Pro Lys Leu Leu  
35 40 45

Ile His Asn Asn Ile Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Asp Asp Glu Gly Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 361  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 361

Gln Ser Ala Leu Thr Gln Pro Pro Ser Thr Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly Ser Lys  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Met Asn Tyr Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Ser Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 362  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 362

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 363  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 363

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ala Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 364  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 364

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn  
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 365  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 365

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro



100

105

110

<210> 367  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens  
 <400> 367

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Gln Ser Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110

<210> 368  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 368

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn  
 20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 369  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 369

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val Arg Ser Ile Ala Ala Asp Arg Thr Asp Tyr Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
115 120 125

Leu Ala Pro  
130

<210> 370  
<211> 131



<212> PRT  
<213> Homo sapiens

<400> 370

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val Arg Ser Ile Ala Ser Ala Gly Thr Asp His Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
115 120 125

Leu Ala Pro  
130

<210> 371  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 371

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val Arg Ser Ile Ala Ser Ala Arg Thr Asp Ser Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
115 120 125

Leu Ala Pro  
130

<210> 372  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 372

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val Arg Ser Ile Ala Ala Ser Arg Thr Asp Tyr Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
115 120 125

Leu Ala Pro  
130

<210> 373  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 373

Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr Tyr Tyr  
1 5 10 15

Tyr Met Asp Val  
20

<210> 374  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 374

Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr Tyr Tyr  
1 5 10 15

Tyr Ile Asp Val  
20

<210> 375  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 375

Glu Gly Ser Ala Arg Val Val Lys Gly Pro Ala Arg Tyr Phe Tyr Tyr  
1 5 10 15

Tyr Met Asp Leu  
20

<210> 376  
<211> 20  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 376

Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr  
1 5 10 15

Tyr Met Asp Ala  
20

&lt;210&gt; 377

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 377

Gln Gln Thr Tyr Ser Thr Pro Arg Thr  
1 5

&lt;210&gt; 378

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 378

Gln Gln Ser Tyr Ser Thr Pro Arg Thr  
1 5

&lt;210&gt; 379

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 379

Gln Gln Ser Asn Ser Ile Pro Arg Thr  
1 5

&lt;210&gt; 380

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 380

Gln Gln Ser Tyr Thr Thr Pro Arg Thr  
1 5

&lt;210&gt; 381

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 381

Ala Ala Ser Asn Leu Gln Ser  
1 5

<210> 382

<211> 7

<212> PRT

<213> Homo sapiens

<400> 382

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 383

<211> 7

<212> PRT

<213> Homo sapiens

<400> 383

Ala Ala Tyr Thr Leu Gln Ser  
1 5

<210> 384

<211> 7

<212> PRT

<213> Homo sapiens

<400> 384

Ser Ala Ser Ser Leu Gln Ser  
1 5

<210> 385

<211> 7

<212> PRT

<213> Homo sapiens

<400> 385

Asp Ala Ser Thr Leu Gln Asn  
1 5

<210> 386

<211> 7

<212> PRT

<213> Homo sapiens

<400> 386

Ala Ala Ser Thr Leu Gln Ser  
1 5

<210> 387  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 387

Gly Ala Ser Ser Leu Gln Ser  
1 5

<210> 388  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 388

Arg Ala Ser Gln Thr Ile Lys Asn Tyr Leu Asn  
1 5 10

<210> 389  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 389

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
1 5 10

<210> 390  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 390

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Asn  
1 5 10

<210> 391  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 391

Arg Ala Ser Arg Gly Val Ser Thr Ser Leu Asn  
1 5 10

<210> 392  
<211> 11

<212> PRT  
<213> Homo sapiens

<400> 392

Arg Ala Ser Gln Thr Ile Ser Lys Asn Leu Asn  
1 5 10

<210> 393  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 393

Arg Ala Ser Arg Arg Ile Gly Thr Tyr Leu Asn  
1 5 10

<210> 394  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 394

Arg Ala Ser Gln Ser Ile Arg Ser Tyr Leu Asn  
1 5 10

<210> 395  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 395

Arg Ala Ser Gln Thr Ile Asn Ser Tyr Leu Asn  
1 5 10

<210> 396  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 396

Arg Ala Ser Gln Ser Ile Asn Arg Trp Leu Ala  
1 5 10

<210> 397  
<211> 142  
<212> PRT  
<213> Homo sapiens

<400> 397

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr  
100 105 110

Tyr Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
130 135 140

<210> 398

<211> 142

<212> PRT

<213> Homo sapiens

<400> 398

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
50 55 60



Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr  
100 105 110

Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
130 135 140

<210> 399  
<211> 142  
<212> PRT  
<213> Homo sapiens

<400> 399

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr  
100 105 110

Tyr Tyr Tyr Met Asp Ala Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
130 135 140

<210> 400  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 400

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val  
1 5 10 15

Gly Asp Arg Val Ile Ile Thr Cys Arg Ala Ser Gln Thr Ile Lys Asn  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 401  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 401

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 402  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 402

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Tyr Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Arg Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Ile Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Thr Val Glu Ile Arg  
100 105

<210> 403  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 403

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val

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<210> 404
<211> 108
<212> PRT
<213> Homo sapiens
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<400> 404

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser
			20					25					30		
Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro
				85					90					95	
Arg	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys				

100

105

<210> 405  
<211> 108  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 405

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 406  
<211> 108  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 406

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Val Ser Thr  
20 25 30

Ser Leu Asn Trp Tyr Gln Ile Lys Pro Glu Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 407  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 407

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 408  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 408

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Ser Lys  
 20 25 30

Asn Leu Asn Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ser Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Gly Leu Gln  
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro  
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Glu  
 100 105

<210> 409  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 409

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
 20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
 85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 410  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 410

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 411  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 411

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60



Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 412  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 412

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 413  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 413

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser

20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 414  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 414

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 415

<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 415

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 416  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 416

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 417  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 417

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Thr Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Arg Ile Gly Thr  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Ala Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Asp Ala Ser Thr Leu Gln Asn Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Thr Glu Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Val Ala Thr Tyr Phe Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 418  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 418

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Arg Ser  
20 25 30

Tyr Leu Asn Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 419  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 419

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 420  
<211> 108  
<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 420

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asp Leu Leu  
35 40 45

Ile Phe Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

&lt;210&gt; 421

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Asn Arg  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 422  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 422

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser  
1 5 10

<210> 423  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 423

Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser Ser  
1 5 10

<210> 424  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 424

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala Ser  
1 5 10

<210> 425  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 425

Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile Ser  
1 5 10

<210> 426  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 426

Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr Ser His Val Ser  
1 5 10

<210> 427  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 427

Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro Val Asn  
1 5 10

<210> 428  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 428

Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr Ser  
1 5 10

<210> 429  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 429

Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala Ser  
1 5 10

<210> 430  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 430

Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn Arg Val Ser  
1 5 10

<210> 431  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 431

Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala Ser  
1 5 10



<210> 432  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 432

Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn Thr Val Asn  
1 5 10

<210> 433  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 433

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly Ser  
1 5 10

<210> 434  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 434

Gln Asp Arg Lys Arg Pro Ser  
1 5

<210> 435  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 435

Gln Asp Lys Lys Arg Pro Ser  
1 5

<210> 436  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 436

Ala Val Thr Asn Arg Pro Ser  
1 5

<210> 437  
<211> 7  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 437

Ser Asn Asn Gln Arg Pro Ser  
1 5

&lt;210&gt; 438

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 438

Gln Asn Arg Lys Arg Pro Ser  
1 5

&lt;210&gt; 439

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 439

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Arg His  
20 25 30

Asn Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

&lt;210&gt; 440

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 440

Gln Ser Ser Gln Arg Pro Ser  
1 5

<210> 441  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 441

Glu Val Ser Asn Arg Pro Ser  
1 5

<210> 442  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 442

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn  
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 443  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 443

Arg Asn Asn Gln Arg Pro Ser

1

5

<210> 444  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 444

Gln Ser Trp Asp Ser Ser Ser Val Ile  
1 5

<210> 445  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 445

Gln Ala Trp Asp Ser Ser Ser Val Ile  
1 5

<210> 446  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 446

Gln Thr Trp Asp Ser Ser Ser Val Ile  
1 5

<210> 447  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 447

Gln Thr Trp Asp Arg Ser Ser Val Val  
1 5

<210> 448  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 448

Gln Ser Tyr Thr Thr Thr Gly Thr Leu Ile  
1 5 10

<210> 449

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 449

Ser Ser Tyr Thr Asn Ser Ser Val Ile  
1 5

<210> 450  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 450

Gln Ala Trp Asp Asn Ser Ala Val Ile  
1 5

<210> 451  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 451

Gln Thr Trp Asp Thr Ser Ile Leu  
1 5

<210> 452  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 452

Ser Ser Tyr Arg Asn Thr Gly Pro Leu  
1 5

<210> 453  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 453

Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 454

<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 454

Asn Ser Tyr Thr Asn Ser Ala Thr Leu Val  
1 5 10

<210> 455  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 455

Phe Tyr Ser His Ser Ala Gln Ser Ala Leu Thr Gln Pro Pro Ser Val  
1 5 10 15

Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu  
20 25 30

Leu Gly Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser  
35 40 45

Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro  
50 55 60

Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile  
65 70 75 80

Ser Gly Thr Gln Ala Leu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp  
85 90 95

Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105 110

Ser Gln Pro Lys Ala Ala Pro  
115

<210> 456  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 456

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 457  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 457

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 458  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 458

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 459  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 459

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60



Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 460  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 460

Phe Tyr Ser His Ser Ala Gln Ser Glu Leu Thr Gln Pro Pro Ser Val  
1 5 10 15

Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys  
20 25 30

Leu Arg Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser  
35 40 45

Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro  
50 55 60

Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile  
65 70 75 80

Ser Gly Thr Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp  
85 90 95

Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105 110

Gly Gln Pro Lys Ala Ala Pro  
115

<210> 461  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 461

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln

1	5	10	15
Ser Ile Thr	Ile Ser Cys Thr Gly	Thr Gly Ser Asp Val	Gly Arg Tyr
	20	25	30
Ser His Val	Ser Trp Tyr Gln Gln His Pro Gly Lys Ala	Pro Lys Leu	
	35	40	45
Ile Ile Tyr Ala Val Thr	Asn Arg Pro Ser Gly Val Ser	Ala Arg Phe	
	50	55	60
Ser Gly Ser Arg Ser Gly	Asn Thr Ala Ser Leu Thr Ile	Ser Gly Leu	
	65	70	75
Gln Ser Glu Asp Glu Ala Thr Tyr His Cys Gln Ser Tyr Thr Thr Thr			
	85	90	95
Gly Thr Leu Ile Phe Gly Gly Gly Thr Asn Leu Thr Val			
	100	105	

<210> 462  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 462

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln	
1	5 10 15
Thr Ala Ile Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser	
	20 25 30
Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Phe	
	35 40 45
Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser	
	50 55 60
His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met	
	65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile	
	85 90 95
Phe Gly Gly Gly Thr Lys Val Thr Val Leu	

100

105

<210> 463  
<211> 106  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 463

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 464  
<211> 106  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 464

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 465  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 465

Gln Ser Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg  
1 5 10 15

Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro  
20 25 30

Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
35 40 45

Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
50 55 60

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ala  
65 70 75 80

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Asn Ser Ser Val  
85 90 95

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 466  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 466

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr  
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 467  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 467

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 468  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 468

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr  
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe  
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 469  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 469

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr  
20 25 30

Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu  
35 40 45

Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe  
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr  
85 90 95

Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 470  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 470

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 471  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 471

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr

20					25					30					
Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Val	Tyr
		35					40					45			
Gln	Asn	Arg	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
Asn	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Val	Ser	Gly	Thr	Gln	Ala	Ile
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Asn	Ser	Ala	Val	Ile
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu						
			100					105							

<210> 472  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 472

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Thr	Leu	Arg	Asn	Lys	Tyr	Ala
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Arg	Lys	Arg	Pro	Ser	Asn	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Val	Met
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu						
			100					105							

<210> 473



<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 473

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr  
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 474  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 474

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr  
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 475  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 475

Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr  
20 25 30

Ser His Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
35 40 45

Ile Ile Tyr Ala Val Thr Asn Arg Pro Ser Gly Val Ser Ala Arg Phe  
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80

Gln Ser Glu Asp Glu Ala Thr Tyr His Cys Gln Ser Tyr Thr Thr Thr  
85 90 95

Gly Thr Leu Ile Phe Gly Gly Gly Thr Asn Leu Thr Val Leu  
100 105 110

<210> 476  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 476

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr  
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe  
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 477  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 477

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 478  
<211> 106  
<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 478

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

&lt;210&gt; 479

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr  
20 25 30

Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu  
35 40 45

Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe  
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr  
85 90 95

Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 480  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 480

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
65 70 75 80

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Ala  
85 90 95

Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 481  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 481

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Leu Leu Val Ile Tyr

35

40

45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

&lt;210&gt; 482

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 482

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

&lt;210&gt; 483

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 483

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

&lt;210&gt; 484

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 484

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Thr Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 485  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 485

Val Gly Ile Ser Thr Tyr Gly Phe Asp Leu  
1 5 10

<210> 486  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 486

Val Gly Met Ala Thr Tyr Gly Phe Asp Ile  
1 5 10

<210> 487  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 487

Val Gly Met Ser Asn Tyr Gly Phe Asp Phe  
1 5 10

<210> 488  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 488

Val Gly Met Ser Thr Tyr Gly Phe Asp Lys  
1 5 10

<210> 489  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 489

Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile  
1 5 10



<210> 490  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 490

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Met Ala Thr Tyr Gly Phe Asp Ile Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
115 120 125

Pro Leu Ala Pro  
130

<210> 491  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 491

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Met Ser Asn Tyr Gly Phe Asp Phe Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
115 120 125

Pro Leu Ala Pro  
130

<210> 492  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 492

Met Gln Ala Leu Gln Thr Leu Thr  
1 5

<210> 493  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 493

Met Gln Ala Leu Arg Ala Ile Thr  
1 5

<210> 494  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 494

Met Gln Ala Leu Gln Ala Ile Thr

1

5

<210> 495  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 495

Met Gln Ala Leu Gln Ser Pro Thr  
1 5

<210> 496  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 496

Met Gln Ala Leu Gln Ser Ile Thr  
1 5

<210> 497  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 497

Met Gly Ser Asn Arg Ala Ser  
1 5

<210> 498  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 498

Leu Gly Ser His Arg Ala Ser  
1 5

<210> 499  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 499

Phe Gly Ser Asn Arg Ala Ser  
1 5

<210> 500

<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 500

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Ile Ser Thr Tyr Gly Phe Asp Leu Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
115 120 125

Pro Leu Ala Pro  
130

<210> 501  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 501

Arg Ser Ser Gln Ser Leu Leu His Ser Thr Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 502  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 502

Arg Ser Ser Gln Ser Leu Leu His Gly Asn Gly Asn Asn Tyr Leu Asp  
1 5 10 15

<210> 503  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 503

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 504  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 504

Arg Ser Ser Gln Ser Leu Leu His Ser Ser Gly Tyr His Tyr Leu Asp  
1 5 10 15

<210> 505  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 505

Arg Ser Ser Gln Ser Leu Leu Asn Ile Asp Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 506  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 506

Arg Ser Ser Gln Ser Leu Leu His Arg Asn Gly Tyr Asn Phe Leu Asp  
1 5 10 15

<210> 507  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 507

Arg Ser Ser Gln Ser Leu Arg His Asn Asn Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 508  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 508

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 509  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 509

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Met Ser Thr Tyr Gly Phe Asp Lys Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
115 120 125

Pro Leu Ala Pro  
130

<210> 510  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 510

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
115 120 125

Pro Leu Ala Pro  
130

<210> 511  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 511

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 512  
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<212> PRT  
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<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807A-M0028-B02

<220>  
<221> MISC\_FEATURE  
<222> (1)..(1)  
<223> X = S or G

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> X = V or I



<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = L, H or F

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> X = Y, N or K

<400> 512

Xaa Xaa Leu Xaa Asp Xaa  
1 5

<210> 513  
<211> 9  
<212> PRT  
<213> Artificial sequence

<220>  
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matured clones of 807B-M0004-A03

<220>  
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<223> X = A or S

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> X = D, S or A

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> X = R or G

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> X = Y, H or S

<400> 513

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa  
1 5

<210> 514  
<211> 20  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity

matured clones of 807B-M0004-H03

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> X = E or D

<220>

<221> MISC\_FEATURE

<222> (2)..(2)

<223> X = G or R

<220>

<221> MISC\_FEATURE

<222> (4)..(4)

<223> X = A, S or V

<220>

<221> MISC\_FEATURE

<222> (5)..(5)

<223> X = G, R or A

<220>

<221> MISC\_FEATURE

<222> (7)..(7)

<223> X = V or F

<220>

<221> MISC\_FEATURE

<222> (9)..(9)

<223> X = G or A

<220>

<221> MISC\_FEATURE

<222> (10)..(10)

<223> X = P or R

<220>

<221> MISC\_FEATURE

<222> (11)..(11)

<223> X = A, P or R

<220>

<221> MISC\_FEATURE

<222> (13)..(13)

<223> X = Y or H

<220>

<221> MISC\_FEATURE

<222> (14)..(14)

<223> X = Y or F

<220>

<221> misc\_feature

<222> (18)..(18)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> MISC\_FEATURE  
<222> (20)..(20)  
<223> X = V, L or A

<400> 514

Xaa Xaa Ser Xaa Xaa Val Xaa Lys Xaa Xaa Xaa Arg Xaa Xaa Tyr Tyr  
1 5 10 15

Tyr Xaa Asp Xaa  
20

<210> 515  
<211> 10  
<212> PRT  
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<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807B-M0009-F06

<220>  
<221> MISC\_FEATURE  
<222> (3)..(3)  
<223> X = M or I

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = S or A

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> X = T or N

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> X = A or G

<220>  
<221> MISC\_FEATURE  
<222> (10)..(10)  
<223> X = I, L, F or K

<400> 515

Val Gly Xaa Xaa Xaa Tyr Xaa Phe Asp Xaa  
1 5 10

<210> 516  
<211> 6  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807B-M0009-F06

<220>  
<221> MISC\_FEATURE  
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<223> X = V or I

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = L, H or F

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> X = K, Y or N

<400> 516

Gly Xaa Leu Xaa Asp Xaa  
1 5

<210> 517  
<211> 9  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807A-M0004-A03

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = S or A

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> X = S or A

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> X = R or G

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> X = H or Y

<400> 517

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa  
1 5

<210> 518  
<211> 10  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Amino acid sequence of the VL chains of the Germline-  
corrected  
antibodies

<400> 518

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
1 5 10

<210> 519  
<211> 107  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Amino acid sequence of the CL chains of the Germline-  
corrected  
antibodies

<400> 519

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
100 105

<210> 520  
<211> 10  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Amino acid sequence of the VL chains of the Germline-  
corrected  
antibodies

<400> 520

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
1 5 10

<210> 521  
<211> 107  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Amino acid sequence of the CL chains of the Germline-  
corrected  
antibodies

<400> 521

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
100 105

<210> 522  
<211> 10

<212> PRT  
<213> Artificial sequence

<220>  
<223> Amino acid sequence of the VL chains of the Germline-  
corrected  
antibodies

<400> 522

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
1 5 10

<210> 523  
<211> 106  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Amino acid sequence of the CL chains of the Germline-  
corrected  
antibodies

<400> 523

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser  
1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp  
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro  
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn  
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys  
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val  
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser  
100 105

<210> 524  
<211> 10  
<212> PRT  
<213> Artificial sequence

&lt;220&gt;

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

&lt;400&gt; 524

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
1 5 10

&lt;210&gt; 525

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

&lt;400&gt; 525

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
1 5 10

&lt;210&gt; 526

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

&lt;400&gt; 526

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
1 5 10

&lt;210&gt; 527

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

&lt;400&gt; 527

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser  
1 5 10 15



Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp  
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro  
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn  
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys  
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val  
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser  
100 105